

Week Ending October 27, 2018 (MMWR Week 43)

North West					North Central					North East				
CN	RA	DC	NT	PL	SM	JW	RP	WS	MS	NM	BR	DP		
SH	TH	SD	GH	RO	OB	MC	CD	CY	PT	JA	AT	JF		
WA	LG	GO	TR	EL	RS	LC	OT	DK	GE	WB	SN	DG		
GL	WH	SC	LE	NS	RH	BT	EW	SA	MR	OS	FR	MI		
HM	KE	FL	HG	PN	SF	RN	HV	CF	AN	LN				
ST	GT	HS	GY	FO	ED	PR	KM	SG	BU	GW				
MT	SV	SW	ME	CA	CM	BA	HP	SU	CL	CQ	MG			
South West					South Central					South East				

Minimal Low Moderate High



### **Highlights this week:**

- **Northwest:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017
- **North Central:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017
- **Northeast:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017
- **Southwest:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017
- **South Central:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017
- **Southeast:** Low risk due to decrease in two week average temperature and lower *Culex* species mosquito abundance than the same week in 2017

### **Methods for Risk Assessment**

We utilize three factors in our risk assessment model; temperature, mosquito surveillance data, and human cases of WNV. Each factor has set benchmarks and each benchmark is assigned a value. The values from these three categories are averaged. The average rating is assigned a WNV risk level for each week. The three factors are as follows:

- High-risk environmental conditions include above-normal temperatures with or without above-normal rainfall. We use the average daily temperature during the prior 2 weeks as our benchmark.
- *Culex* species of mosquitoes serve as the main source of WNV transmission to people and horses. Relative abundance of *Culex* species mosquitoes compared to the same week in the previous year are compared.
- Number of human cases of WNV each week based on the average number of cases in the previous five years.

For WNV human case counts updated weekly, visit [http://www.kdheks.gov/epi/case\\_reports\\_by\\_county.htm](http://www.kdheks.gov/epi/case_reports_by_county.htm).

For more information on arboviral disease surveillance in Kansas, visit our website at; [http://www.kdheks.gov/epi/arboviral\\_disease.htm](http://www.kdheks.gov/epi/arboviral_disease.htm) or contact the Kansas Department of Health and Environment's Infectious Disease Epidemiology and Response section at 1-877-427-7317 or e-mail at [kdhe.epihotline@ks.gov](mailto:kdhe.epihotline@ks.gov).